IN THE SPECIFICATION

Please replace the paragraph on page 3, line 8 with the following paragraph:

According to the present invention, there is provided, a device for dispensing substance from a cartridge comprising: a retaining means for retaining a substance containing cartridge; a telescoping plunger assembly made up of a plurality of interconnecting members; a drive train means for driving said telescoping plunger assembly; and, a base to which at least one of the interconnecting members is fixed.

Please replace the paragraph on page 7, line 7 with the following two paragraphs:

Figure 18 is a perspective view showing the detail of a guide mount for the present device and a , the detail of a joist guide fitted to the guide mount. of the present device, the detail of

Figure 19 is a perspective view of a seam guide, and the detail of a seam guide when fitted to the guide mount shown in Figure 18 of the present device.

Please replace the paragraph on page 7, line 10 with the following two paragraphs:

Figure 20 19 is a perspective view showing the detail of an adjustable guide when fitted to the guide mount. of the present device and the detail showing

<u>Figure 21 is a perspective view of</u> the reverse side of the adjustable guide for the present device <u>shown in Figure 20</u>, when not fitted to the guide mount of the present device.

Please replace the paragraph on page 7, line 13 with the following paragraph:

Figure $\underline{22}$ $\underline{20}$ is a perspective view showing the detail of a tip cutter and a puncture rod for the present device, when not fitted to the present device.

Please replace the paragraph on page 7, line 15 with the following paragraph:

Figure 23 21 is a side elevational view showing detail of the threads of the front and rear rods of the present device, with the majority of the length of the turnbuckle being cut away.

Please replace the paragraph on page 7, line 17 with the following two paragraphs:

Figures 24a, b and c are 22 is a perspective views of a variety of detachable nipples for use with (and expanded views showing detail) that can be held under the restraining cap of the present device.

Figure 25a, b and c are expanded views of the tips of the nipples shown in Figures 24a, b and c.

Please replace the paragraph starting on page 7, line 20 with the following paragraph:

The front end of the a device 1 for dispensing substance from a cartridge, which is in the nature of a caulking gun and will sometimes be referred to hereinafter as such for convenience, † is dimensioned to receive a substance containing cartridge 10 through a hollow cylindrical canister 12. Cartridges such as cartridge 10 are presently available in the building supply industry for substances such as caulking, sealants, glue and lubricants. Cartridge 10 is a standard stock item with a delivery cone 14 protruding from one end and a base seal 16 at its other end. The diameter of base seal 16 matches that of the interior of cartridge 10. When force is applied to the centre of base seal 16, it will slide along the interior of cartridge 10, causing the contents of cartridge 10 to be expelled from delivery cone 14.

Please replace the paragraph on page 8, line 7 with the following paragraph:

Force is applied to base seal 16 through plunger head 18, which can be seen in figure 4. Cartridge 10 is held in the device for dispensing substance from a cartridge gun 1 through a by retaining means generally identified by reference numeral 20 for retaining a substance containing cartridge 20. Cartridge 10, once it is placed in the front end of canister 12, is retained in canister 12 at its front end by retaining means 20 including with retaining cap 22. The cap 22 is disk shaped with a groove 24 cut in to it so it can be positioned over delivery cone 14. Two perpendicular tongues 26 and 28, which are curved to match the radius of cap 22 and the wall of canister 12, are attached to cap 22 on either side of groove 24. Tongues 26 and 28 attach to canister pivots 30 and 32. The tongues 26 and 28 are flexible and the space between them is equal to the outside diameter of canister 12. End 34 of canister 12 is cut at approximately forty-five degrees toward its upper region 36 such

that end cap 22 can be pivoted about canister pivots 30 and 32 over the upper region of end 36. As the radius of curve curvature in tongues 26 and 28 matches the radius of curve of canister 12, cap 22 will tend to snap into place when it is swung over upper region of end 36 to rest up flush against end 34.

Please replace the paragraph starting on page 8, line 20 with the following paragraph:

The rear portion 38 of canister 12 is fluted with a number of flutes 40 cut along the length of the rear portion 38 of canister Raised annular ring 42 is positioned to fit into annular groove 44 positioned in the interior of ring 46. This arrangement of annular ring 42 sitting in annular groove 44 allows for an axial lock of canister 12 in ring 46 while permitting relative rotation of canister 12 within ring 46. Circumferential compression of the rear portion 38 of canister 12 will disengage annular ring 42 from annular groove 44 in ring 46, allowing for the removal of canister 12 from the remainder of the device for dispensing substance from a cartridge gun 1 and access to the workings of the gun device for dispensing substance from a cartridge 1 for repair and maintenance work. Canister 12 can be reattached to the device for dispensing substance from a cartridge 1 at the front end of ring 46 by circumferentially compressing the rear portion 38 of the canister, positioning annular ring 42 adjacent to annular groove 44, and releasing compression allowing annular ring 42 to expand into annular groove 44. Compression of the rear portion of canister 38 12 may be facilitated by squeezing together handles 37, 39 on Cclamp 41, which is positioned over the rear end of canister 12 38. Flutes 40 may also be equipped with outwardly directed barbs 48, which can catch on an inward facing lip 50 on annular groove 44 should a stronger grip surface between the retaining means for

retaining the substance containing cartridge 20 and the transmission housing 52 (via ring 46) be necessary. Rotation of canister 12 allows an operator to position guide mount 60 while holding the remainder of the device for dispensing substance from a cartridge gun 1 stationary.

Please replace the paragraph on page 9, line 12 with the following paragraph:

Ring 46 is attached at its rear end to transmission housing 52. Transmission housing 52 consists of a thin cylindrical shell, closed at its rearmost end with cap 54. Slot 56, which is seen in figure 4, runs along the length of the underside of transmission housing 52. Ring 46 is mounted on transmission frame 58 by way of axial grooves fig. 11, 62, 64 as shown in Figure 11 which accept the flared edges 66, 68 of transmission frame members 70, 72. Ring 46, together with attached canister 12 and transmission housing 52, is therefore free to slide along the length of transmission frame 58. Transmission housing 52 is able to slide over drive assembly 74 through slot 56 seen in Figures 16 and 17 in the underside of transmission housing 52.

Please replace the paragraph on page 9, line 20 with the following paragraph:

Plunger head 18 is moved forwards and backwards along the length of the device for dispensing substance from a cartridge gun 1 via telescoping plunger assembly generally designated by reference numeral 76. Telescoping plunger assembly 76 consists of a plurality of interconnecting elements, at least one of which is able to be withdrawn into or extended from a recess in the next adjacent element. When all the elements are withdrawn into the

recesses in the next adjacent element, telescoping plunger assembly 76 is fully compacted. When all the elements are extended from the recesses in the next adjacent element, telescoping plunger assembly 76 is fully extended. In the preferred embodiment, the major components of telescoping plunger assembly 76 are front rod 78, rear rod 80 and intermediate turnbuckle 82.

Please replace the paragraph on page 10, line 1 with the following paragraph:

Plunger head 18 is connected to the forward terminal of front rod 78. Front rod 78 and rear rod 80 are externally threaded, with opposite threaded hands as shown in Figure 21.

Please replace the paragraph on page 10, line 3 with the following paragraph:

Front rod 78 and rear rod 80 are externally threaded with buttress threads 79, as shown in Figure 21. The flat side 81 of buttress threads are oriented to take the load which is pushing inwards towards turnbuckle 82. This thread type and orientation prevents the threads on front rod 78 and rear rod 80 from jumping out of the corresponding threads in turnbuckle 82 under considerable linear forces such as that which <u>is</u> encountered when dispensing very viscous substances from a cartridge 10.

Please replace the paragraph on page 10, line 9 with the following paragraph:

The front and rear openings 84, 86 of turnbuckle 82 are threaded to mate with the threading on front rod 78 and rear rod 80 such that when turnbuckle 82 is rotated in one direction (forward rotation),

front rod 78 will be pushed out the front opening 84 of turnbuckle 82 and rear rod 80 will be pushed out the rear opening 86 of turnbuckle 82, provided that front rod 78 and rear rod 80 are not allowed to rotate relative to the device for dispensing substance from a cartridge 1 while turnbuckle 82 is rotating. The effect of rotating turnbuckle 82 in this (forward) direction has the effect of extending telescoping plunger assembly 76. Again, provided that front rod 78 and rear rod 80 are not allowed to rotate, a reversal in the direction of rotation of turnbuckle 82 will cause front rod 78 to be drawn into front opening 84 of turnbuckle 82 and rear rod to be drawn into rear end opening 86 of turnbuckle 82. The effect of rotating turnbuckle 82 in this reverse direction has the effect of compacting telescoping plunger assembly 76. telescoping plunger assembly 76 within the device for dispensing substance from a cartridge 1 can be utilized to push base seal 16 into cartridge 10, which will in turn cause the contents of cartridge 10 to be expelled from delivery cone telescoping plunger assembly 76 consists of front rod 78, rear rod 80 and intermediate turnbuckle 82 as described above, telescoping plunger assembly 76 is able to be extended and compacted (that is telescope) along its long axis, while retaining strength along its cross-sectional axis as the elements of telescoping plunger assembly are being telescoped.

Please replace the paragraph on page 11, line 1 with the following paragraph:

Rotation of rear rod 80 is prevented by attaching the rear terminal of rear rod 80 to the cap 54 at the end of transmission housing 52 via fixation nut 88. Rotation of the front rod 78 is prevented by attaching the rear terminal of rod 78 to the front terminal of rod 80 via key 90. As seen in figure 5, paddle 92 is attached to the

front end of key 90, and rests in keyway slot 94 in front rod 78. As illustrated in figure 11, keyway slot 94 is comprised of two opposed channels 96, 98 which are cut into the inner bored surface 100 of front rod 78. As seen in figure 6, terminus 102 of keyway slot 94 is closed, preventing paddle 92 from disengaging from keyway slot 94. Pin 104 is attached to the rear end of key 90, and rests in keyway slot 106 in rear rod 80. Keyway slot 106 is comprised of a single channel 108 which is cut into the inner hollowed surface 112 of rear rod 80. Terminus 114 of keyway slot 106 is closed, preventing pin 104 from disengaging from keyway slot 106.

Please replace the paragraph on page 11, line 12 with the following paragraph:

Front rod 78 is bored out so that the diameter of bore 100 is greater than the outer diameter of rear rod 80. Rear rod 80 is hollowed out so that the hollow 112 is dimensioned so that key 90 fits inside of hollow 112. Key 90, with paddle 92 at its front end and pin 104 at its rear end, is of a fixed length, so that the fixed length defines the maximum and minimum length of telescoping plunger assembly 76. The shortest length that telescoping plunger assembly 76 can have is defined as being when turnbuckle 82 is rotated in one direction (reverse direction) such that the front end of paddle 92 is pressed up against the front end of bore 100 and the rear end of pin 104 is pressed up against the rear end of hollow 112. Full retraction of telescoping plunger assembly 76 is seen in Figure 9. The maximum length that telescoping plunger assembly 76 can have is defined as being when turnbuckle 82 is rotated in the opposite direction (forward direction) such that the rear end of paddle 92 is pressed up against the terminus 102 of keyway slot 94, which spans bore 100, and the front end of pin 104

is pressed up against terminus 114 of keyway slot 106, which spans hollow 112. Almost full extension of telescoping plunger assembly 76 is seen in Figure 10.

Please replace the paragraph starting on page 11, line 26 with the following paragraph:

Turnbuckle 82 is driven by drive train assembly means 116 which consists of a motor which is connected to a drive assembly 74. Drive assembly 74 consists of the parts of the device for dispensing substance from a cartridge 1 which transfer the force provided by a motor to telescoping plunger assembly 76 in a manner that will allow telescoping plunger assembly 76 to extend and compact, that is drive linkage 77 and the parts that prevent at least a portion of the telescoping plunger assembly from rotating relative to device for dispensing substance from a cartridge gun 1. In the embodiment of the invention illustrated in Figure 1, the motor is a reversible drill 118 (an external power source) which is connected through a drive linkage 77, the details of which can be seen in figure 13, consisting of a primary spur gear reduction unit 120, a drive shaft 122, a secondary gear reduction unit 124, an output gear 126, and a drive hub 128, which is connected to drive pins 154 and 156 and alignment cage 158, which rotate turnbuckle 82. In the embodiment shown in Figure 1, the motor is something which is adapted from a tool (i.e. drill 118) that most home handipersons or trades persons have available to them, making the device for dispensing substance from a cartridge gun 1 more affordable and easily adaptable. Similarly, the device for dispensing substance from a cartridge 1 may be made to be adaptable to other external power sources. Ideally other external power sources would be pre-existing tools which are able to provide rotational force such as reversible motorised screwdrivers or

grinders. The device for dispensing substance from a cartridge <u>Gun</u> 1 may also be fitted with its own internal motor. An internal AC motor, connectable to household current or a DC motor connected to a battery pack or household current through a transformer are well known, and either is adaptable to power the device for dispensing substance from a cartridge <u>qun</u> 1 through a suitable drive train.

Please replace the paragraph starting on page 12, line 20 with the following paragraph:

The embodiment of the invention utilizing a reversible drill 118 as a motor will now be described in greater detail, with the understanding that other suitable motors are equally adaptable to the present invention. The device for dispensing substance from a cartridge <u>Gun</u> 1 is detachably mounted on drill 118 via adapter block 130. This mounting can be achieved in a variety of ways that are well known such as a screw clamp, but the simplest and probably the best method is a simple strap 132 which passes through slots 134 in transmission frame members 70,72 and secures around the body of drill 118 with a detachable closure such as a velcro (tm) <u>VELCRO™ hook and loop</u> closure. The chuck 136 of drill 118 engages shaft 138, which drives a series of gears which make up primary spur gear reduction unit 120. Primary spur gear reduction unit 120 drives secondary gear reduction unit 124 through drive shaft 122. Secondary gear reduction unit 124 terminates with final gear 126. Final gear 126 is held between two plates 140 and 142, which are fixed at their lower ends to transmission frame members 70, 72 at points 144 and 146, respectively. Drive hub 128 is made of hub flange 148 and hub collar 150. Hub flange 148 rests in front of plates 140 and 142, and hub collar 150 passes through plates 140 and 142, allowing hub collar 150 to engage with the inner surface of final output gear 126, which allows final output gear 126 to

rotate drive hub 128. Support ring 152 is affixed to the back end of hub collar 150, holding drive hub 128 in place on either side of plates 140 and 142. Drive pins 154 and 156 protrude out the front of drive hub 128 and are connected to an alignment cage 158 which sits within turnbuckle 82. Rotation of the drive hub 128 therefore indirectly drives rotation of turnbuckle 82, allowing for the extending and compacting of telescoping plunger assembly 76. The method by which the drive hub 128, alignment cage 158 and turnbuckle interact in the preferred embodiment to drive telescoping plunger assembly 76 will be described in detail once additional components of telescoping plunger assembly 76 and drive train means 116 are introduced.

Please replace the paragraph starting on page 13, line 15 with the following paragraph:

Drive shaft 122 ideally is split into a forward driveshaft 172 and a rearward driveshaft 174 connected by clutch 176. Clutch 176 is split into at least two portions along its longitudinal axis. Annular grooves 178 and 180 at its forward and rearward end receive spring clips 182 and 184 which hold clutch 176 together. Forward driveshaft 172 and rearward driveshaft 174 have a non-circular cross-sectional profile and rest in recess 186 in clutch 176. the embodiment illustrated in Figure 13, the cross-sectional profiles of the forward and rearward driveshafts 172 and 174 and the recess 186 are hexagonal, but any mating non-circular crosssectional profiles will do. When telescoping plunger assembly 76 is either at its fully extended or fully compacted position, front rod 78 and rear rod 80 will stop moving, which will, in turn, cause turnbuckle 82, alignment cage 158, drive pins 154 and 156, drive hub 128, output gear 126, and secondary gear reduction unit 124 to stop rotating, stopping rearward driveshaft 174. As drill 1187 will continue to drive primary spur gear reduction unit 120, forward driveshaft 172 will continue to rotate while rearward driveshaft 174 will be stopped. Clutch 176 will stop rotating, to some extent, relative to forward driveshaft 172, and clutch 176 will continue to rotate, to some extent, relative to rearward driveshaft 174. When forward driveshaft 172, clutch 176, and rearward driveshaft 174 rotate at different rates, the portions of clutch 176 separate. As spring clips 182 and 184 will oppose the separation of clutch 176, a thunking noise will be made when forward and rearward driveshafts 172 and 174 move relative to recess 186, thereby alerting the operator that telescoping plunger assembly 76 has reached either end of its travel.

Please replace the paragraph starting on page 14, line 6 with the following paragraph:

In a preferred embodiment of the present device for dispensing substance from a cartridge gun 1, it is desirable to be able to unload an empty cartridge 10 (that is, when telescoping plunger assembly 76 is fully extended) and reload a full cartridge 10 (that is, when telescoping plunger assembly 76 is fully compacted) without manually having to rewind telescoping plunger assembly 76 by reversing the direction of rotation of turnbuckle 82. Figures 7 to 9, 12, 16, and 17 illustrate a splitting fast rewind means comprising turnbuckle splitting means mechanism 190 whereby turnbuckle 82 is able to split into two halves, 192 and 194. turnbuckle halves 192 and 194 separate (disengage), plunger assembly 76 consequently becomes fully extended as plunger biassing spring means generally designated by reference numeral 196 engage, whereby plunger biassing springs 198 and 200 are released and The rearward end of plunger biassing spring 198 is connected to cap 54 and the forward end of plunger biassing spring 198 is connected to an inner recess 202 of drive hub 128. rearward end of plunger biassing spring 200 is connected to inner surfaces 204 and 206 of turnbuckle halves 192 respectively, and the forward end of plunger biassing spring 200 is connected to the rearmost end of front rod 78. Turnbuckle halves 192 and 194 can open and close on the rearward end of plunger biassing spring 200 as the rearward end of plunger biassing spring 200 is squared. The rearward end of biassing spring 200 is contained by alignment cage 158 and the squared end slides on the inner surfaces 204 and 206 of the turnbuckle halves 192 and 194. When turnbuckle halves 192 and 194 separate, inner surfaces 204 and 206 maintain contact with the rearward end of plunger biassing spring 200. The rearward end of plunger biassing spring always centred, relative to turnbuckle halves 192 and 194, as the alignment cage 158 is pinned to drive hub 128 via pins 154 and 156. When a cartridge 10 is placed into canister 12, plunger head 18 rests up against base seal 16 of cartridge 10 due to the force exerted by plunger biassing springs 198 and 200 in keeping telescoping plunger assembly 76 extended. As cartridge 10 is placed into canister 12 and finally held in place with cap 22, telescoping plunger assembly 76 is compacted, but plunger biassing springs 198 and 200 continue to exert force along the length of the device for dispensing substance from a cartridge gun 1, keeping plunger head 18 flush against the base seal 16 of cartridge 10. Plunger biassing springs 198 and 200 will keep telescoping plunger assembly 76 maximally extended when a cartridge 10 is placed in canister 12 of the device for dispensing substance from a cartridge gun 1, no matter whether cartridge 10 is full or only partially full. As long as plunger biassing springs 198 and 200 have similar outward longitudinal tension strength, the two plunger biassing springs will be equally extended about drive hub 128 when turnbuckle halves 192 and 194 are disengaged. Once turnbuckle

halves 192 and 194 are engaged, turnbuckle 82 is free to be rotated to drive telescoping plunger assembly 76 as previously described.

Please replace the paragraph starting on page 15, line 13 with the following paragraph:

Turnbuckle half 192 is composed of a semi-cylindrical shell 208 having a forward plug 210 having an inward semi-cylindrical face 212 and a rearward plug 214 having a semi-cylindrical face 216. Turnbuckle half 194 is composed of a semi-cylindrical shell 218 having a forward plug 220 having an inward semi-cylindrical face 222 and a rearward plug 224 having a semi-cylindrical face 226. Semi-cylindrical faces 216, 212, 222 and 226 are all threaded and dimensioned to mate with the threading on the exterior surfaces of front rod 78 and rear rod 80, as the case may be. Alignment cage 158 rests within the cylindrical shells 208 and 218 of turnbuckle halves 192 and 194, and rearward of forward plugs 210 and 220 and forward of rearward plugs 214 and 224, thereby holding turnbuckle halves 192 and 194 in place along the length of the device for dispensing substance from a cartridge gun 1. The inner bore 228 of alignment cage 158 is slightly larger than the diameter of front rod 78 and of plunger biassing spring 200, such that front rod 78 and plunger biassing spring 200 can rest within the inner bore 228 of alignment cage 158. The front face 230 of alignment cage 158 incorporates diametrically opposed cam slots 232 and 234 which accept cam followers 236 and 238 respectively. Cam follower 236 is imbedded in the middle of front plug 210 in turnbuckle half 192. Cam follower 238 is imbedded in the middle of front plug 220 in turnbuckle half 194. The rearmost end of alignment cage 158 accepts drive pins 154 and 156 from drive hub 128. Drive pin 156 protrudes through clearance slot 240 in rearward plug 224 of turnbuckle half 194 and connects to drive hub 128 at point 242.

Drive pin 154 protrudes through clearance slot 244 in rearward plug 214 of turnbuckle half 192 and connects to drive hub 128 at point 246. Rearward plugs 214 and 224 of turnbuckle halves 192 and 194 support cam follower pins 248 and 250 respectively which engage cam slots 252 and 254 of drive hub 128. Rotation of drive hub 128 in the forward direction causes an equal, corresponding, rotation of alignment cage 158, which is connected to drive hub 128 through drive pins 154 and 156.

Please replace the paragraph starting on page 16, line 10 with the following paragraph:

Engagement of turnbuckle halves 192 and 194 is accomplished through applying a braking force to turnbuckle 82 while drive hub 128 is rotating in the forward direction. A preferred embodiment of a braking means mechanism which will achieve this result is best illustrated in Figure 11. Brake actuator mechanism 256 is contained within ring 46. Brake actuator mechanism 256 consists of engagement buttons 258 and 260, brake shoes 262 and 264, friction surfaces 266 and 268, and biassing springs 270 and 272. assembly of brake engagement button 258, brake shoe 262, friction surface 266 and biassing spring 270 is set up on one side of ring 46, and an other similar assembly of brake engagement button 260, brake shoe 264, friction surface 268 and biassing spring 272 is set up on the opposite side of ring 46. When brake engagement buttons 258 and 260 are depressed, biassing springs 270 and 272 (leaf springs in the preferred embodiment illustrated in Figure 11) engage brake shoes 262 and 264 and friction surfaces 266 and 268 are pressed up against the outer surface of turnbuckle 82. Not much braking force is required to retard turnbuckle 82, as drive pins 154 and 156 do not come into direct contact with turnbuckle halves 192 and 194, but rather pass through clearance slots 244 and 240,

respectively. However the continued rotation of alignment cage 158 causes drive pins 154 and 156 to move from one side of clearance slots 244 and 240 to the other. While this rotation is occurring cam followers pins 250, 248, 236 and 238 move from one side to the other side of cam slots 252, 254, 232 and 234 respectively, causing turnbuckle halves 192 and 194 to close down (engage). Once turnbuckle halves 192 and 194 are engaged, brake actuator mechanism 256 is released, allowing turnbuckle 82 to rotate in the forward direction.

Please replace the paragraph on page 17, line 3 with the following paragraph:

When cam followers pins 250, 248, 236, and 238 interact with cam slots 252, 254, 232, and 234, respectively, causing turnbuckle halves 192 and 194 to close down, threads on semi-cylindrical faces 212 and 222 mate with the corresponding threads on the external face of front rod 78 and threads on semi-cylindrical faces 216 and 226 mate with the corresponding threads on the external face of rear rod 80, thereby engaging turnbuckle 82 with front rod 78 and rear rod 80. Once turnbuckle 82 is engaged, rotation of drive hub 128 in either direction (i.e. forward or reverse) will not cause turnbuckle halves 192 and 194 to disengage because the initial rotational torque is not strong enough to disengage the turnbuckle halves 192 and 194 when the motor is turned on to rotate the drive hub 128 in the either the forward or the reverse direction.

Please replace the paragraph starting on page 17, line 12 with the following paragraph:

Separation of turnbuckle halves 192 and 194 is accomplished through applying a braking force to turnbuckle 82 while drive hub 128 is rotating in the reverse direction. A preferred embodiment of a braking means mechanism which will achieve this result is best illustrated in Figure 11. Brake actuator mechanism 256 is contained within ring 46. Brake actuator mechanism 256 consists of engagement buttons 258 and 260, brake shoes 262 and 264, friction surfaces 266 and 268, and biassing springs 270 and 272. assembly of brake engagement button 258, brake shoe 262, friction surface 266 and biassing spring 270 is set up on one side of ring 46, and an other similar assembly of brake engagement button 260, brake shoe 264, friction surface 268 and biassing spring 272 is set up on the opposite side of ring 46. When brake engagement buttons 258 and 260 are depressed, biassing springs 270 and 272 (leaf springs in the preferred embodiment illustrated in Figure 11) engage brake shoes 262 and 264 and friction surfaces 266 and 268 are pressed up against the outer surface of turnbuckle 82. Not much braking force is required to retard turnbuckle 82, as drive pins 154 and 156 do not come into direct contact with turnbuckle halves 192 and 194, but rather pass through clearance slots 244 and 240, respectively. However the continued rotation of alignment cage 158 causes drive pins 154 and 156 to move from one side of clearance slots 244 and 240 to the other. While this rotation is occurring cam followers 250, 248, 236 and 238 move from one side to the other side of cam slots 252, 254, 232 and 234 respectively, causing turnbuckle halves 192 and 194 to disengage.

Please replace the paragraph on page 18, line 16 with the following paragraph:

When one is expelling substance from a cartridge 10 mounted in the gun present device for dispensing substance from a cartridge 1, it

is desirable to have fine control over the termination of substance delivery. Ordinarily, when one is expelling substance and one stops telescoping plunger assembly 76 abruptly, the contents of cartridge 10, being viscous, will continue to ooze out of delivery cone 14. One can stop the flow of substance abruptly by withdrawing telescoping plunger assembly 76. This abrupt withdrawal can be accomplished by reversing the direction of rotation of turnbuckle 82 through reversing the direction of rotation of the motor driving turnbuckle 82, but this process can be cumbersome if done manually. If the motor is a part of the device for dispensing substance from a cartridge gun 1, then a backfeed circuit can be constructed that will automatically turn on the motor in a reverse direction for a brief second or two when the motor is first turned off.

Please replace the paragraph starting on page 19, line 23 with the following paragraph:

If the device for dispensing substance from a cartridge gun 1 is being powered by an external power source such as drill 118 or an electric screwdriver, a simple reversal of direction of the drill or screwdriver can be utilized to achieve the same effect as an automatic reverse function when the external power source is turned off. Often it is cumbersome to find the switch and manually reverse the direction of rotation of a drill or electric screwdriver when an operator is concentrating on the application of caulking (or other similar substance) from the gun device for dispensing substance from a cartridge 1. In such an instance it may be easier for the operator to merely turn off the power source and squeeze together handles 37, 39 on C-clamp 41, which is positioned over the rear portion 38 of canister 12. This squeezing will disengage canister 12 from ring 46 (as previously

described) and allows the operator to pull cartridge 10 and canister 12 away from device for dispensing substance from a cartridge 1 the gun, which abruptly breaks contact between plunger head 18 of telescoping plunger assembly 76 and base seal 16 of cartridge 10, thereby stopping the flow of substance from cartridge 10 through delivery cone 14.

Please replace the paragraph on page 20, line 8 with the following paragraph:

The device for dispensing a substance from a cartridge Gun 1 can additionally be fitted with a means for guiding the delivery of substance from the delivery cone (or a bead application guide) 14 along the surface of which the substance is being applied. Guide mount 60 is attached towards the front end of canister 12, as is seen in Figure 1. Guide mount 60 has a forward-facing horizontal channel 320 and a vertical channel 322. Horizontal channel 320 and vertical channel 322 have cross-sectional profiles which are key hole shaped, and are adapted to grip various guides through a snap fit.

Please replace the paragraph on page 20, line 15 with the following paragraph:

Three bead application guides are shown in Figures 18, and 19, 20 and 21. Joist guide 324 and seam guide 326 are shown in Figure 18s and 10 respectively and adjustable guide 348 is shown in Figures 1920 and 21. Joist guide 324 has a cylindrically shaped top edge 328 which can be snap fitted into either horizontal channel 320 or vertical channel 322 of guide mount 60. Guide arms 330 and 332 extend from either side of the body 336 of joist guide 324. Joist guide 324 is used by positioning guide arms 330 and 332 on either

side of a joist 400 thereby aligning delivery cone 14 towards the middle of the joist. Joist 400 is not part of the device for dispensing substance from a cartridge 1 present invention, but is rather an external surface to which substance is being applied. Substance can therefore be expelled from the device for dispensing substance from a cartridge 1 gun while moving the device 1 it moves along the length of the joist and keeping arms 330 and 332 on either side of the joist. A substance bead running the length of the joist can therefore be produced. A variety of different sized joist guides 324 can be produced having different widths of body 336, which would be adaptable to various widths of joist.

Please replace the paragraph on page 21, line 1 with the following paragraph:

Seam guide 326 comprises top edge 338 with a key hole shaped cross sectional profile which can be snap fitted into either horizontal channel 320 or vertical channel 322 of guide mount 60. Arms 340 and 342 extend down equally from either side of top edge 338 and join at axle 344, about which wheel 346 is free to rotate. seam guide 326 is mounted in either horizontal channel 320 or vertical channel 322, wheel 346 is aligned with the centre of Wheel 346 can be rolled over a seam, 401, delivery cone 14. thereby positioning delivery cone 14 over the seam. Seam 401 is not part of the device for dispensing substance from a cartridge 1 present invention, but is rather an external surface to which substance is being applied. If substance is being expelled from a cartridge 10 contained in the device for dispensing substance from a cartridge 1 gun, it will be deposited along the length of the seam.

Please replace the paragraph on page 21, line 11 with the following paragraph:

Adjustable guide 348 has a top edge 350 with a key hole shaped cross-sectional profile which can be snap fitted into either horizontal channel 320 or vertical channel 322 of guide mount 60. Adjustable guide arms 352 and 354 extend downwardly from the back face 403 of the body 358 of adjustable guide 348. Adjustable arms 352 and 354 are connected to gears 360 and 362 which are mounted on the front face 356 of the body 358 of adjustable guide 348 via pivots 364 and 366 respectively. Gears 360 and 362 intermesh so that when one is rotated about its pivot, the other is rotated by an equal amount in the opposite direction; consequently when the position of either adjustable guide arm 352 or 354 is adjusted in the plane of the rear face 403 of the body 358 of the adjustable quide, the other adjustable guide arm will be automatically positioned along that plane at an equal angle from an imaginary perpendicular plane bisecting adjustable guide arms 352 and 354. The position of adjustable guide arms 352 and 354 can be locked by inserting pin 368 into hole 370 in the rear face 403 of the body 358 of adjustable guide 348. When inserted in hole 370, pin 368 abuts at least one of the teeth of either gear 360 or 362, which prevents the rotation of both gears 360 and 362. Adjustable guide arms 352 and 354 terminate in feet 372 and 374, which are able to rest on a surface to which substance is being applied. Figure 19 20 illustrates feet 372 and 374 resting on surface 376 (surface 376 is not part of the device for dispensing substance from a cartridge qun 1, but is rather an external surface to which substance is being applied), thereby steadily positioning delivery cone 14 above surface 376.

Please replace the paragraph on page 22, line 1 with the following paragraph:

As was described earlier, canister 12 can be rotated about ring 46, thereby positioning any guide mounted in guide mount 60 at a convenient position relative to the positioning of the operator who is holding the device for dispensing substance from a cartridge 1 gun.

Please replace the paragraph on page 22, line 4 with the following paragraph:

The present device for dispensing a substance from a cartridge Gun 1 may also be outfitted with a tip cutter 300 for cutting delivery cone 14 of cartridge 10 and a puncture rod 302 for piercing the cartridge seal that is found at the forward end of most commercially manufactured cartridges just posterior of the delivery cone. Tip cutter 300 and puncture rod 302 are mounted on the front surface of primary gear reduction unit 120 or some other convenient location on the present device 1 gun. Tip cutter 300 and puncture rod 302 are illustrated in figure 20 Figure 22, which shows them when they are not mounted on the present device for dispensing substance from a cartridge qun 1. Tip cutter 300 has two cylindrical receiving slots 304 and 306, which are made of a compliant material, with longitudinal slits 308 and 310 along their respective lengths. Consequently, receiving slots 304 and 306 are able to receive a delivery cone 14 that is inserted into them and hold the cone tightly. Delivery cone 14 can be inserted more or less deeply into either receiving slot 304 or 306, depending on how far from the tip one wants to cut the delivery cone 14. Guillotine blade 312 is held and slides within chopping slot 314 in tip cutter body 316 at such an angle to conveniently open the end

of delivery cone 14 when delivery cone 14 is placed in receiving slot 304 or 306 and guillotine blade 312 is depressed within chopping slot 314. Receiving slots 304 and 306 may be at any convenient angle but in Figure 20 22, receiving slot 304 is angled at approximately forty-five degrees to guillotine blade 312 and receiving slot 306 is angled at approximately ninety degrees to guillotine blade 312. Practically, any angle between ninety and forty-five degrees is optimal. An angle slightly less than forty-five degrees is still convenient, but as the plane of chopping slot 314 gets closer to that of receiving slot 304, the cut produced at the tip of delivery cone 14 will become less well suited to deliver a smooth bead of substance from cartridge 10. Tip cutter 300 may also be comprised of a hole in the face 318 of the tip cutter rather than a receiving slot.

Please replace the paragraph on page 23, line 1 with the following paragraph:

Puncture rod 302 may be used to puncture the front seal in cartridge 10 found just posterior to the tip of delivery cone 14 after the tip of delivery cone 14 has been cut by merely inserting the sharp end 303 of puncture rod 302 into the cut tip delivery cone 14.

Please replace the paragraph on page 23, line 10 with the following paragraph:

Various detachable nipples may be used with the present device for dispensing substance from a cartridge gun 1 for the creation of specific bead shapes from the flow of substance dispensed from the cartridge 10 through the delivery cone 14. Several such nipples are illustrated in Figure 22 Figures 24a, b and c. Each nipple 600

is hollowed out and has a base end 602 dimensioned to fit over the delivery cone 14 at the front of cartridge 10 when cartridge 10 is placed in cannister 12. Each nipple 600 additionally has a collar 604 at its base end 602 which abuts the front end of cartridge 10 when nipple 600 is placed over delivery cone 14. Nipple 600 is held in place over delivery cone 14 when retaining cap 22 is swung into position over nipple 600 covering delivery cone 14 and collar 604 which abuts the front end of cartridge 10, in the same manner that was described earlier for swinging retaining cap 22 into position over delivery cone 14 when nipple 600 was not being used.

Please replace the paragraph starting on page 23, line 21 with the following paragraph:

With reference to Figures 25a, b and c, the The tip 606 of each nipple has a shaping surface at its opening. As substance is being expelled through the delivery cone 14 of a cartridge 10-by the device for dispensing substance from a cartridge 1 in the gun, it is passed through the inner surface of the nipple and is directed towards the orifice 608 at the tip of the nipple, through which substance is expelled and where the substance meets shaping surface As the substance being expelled from the cartridge is viscous, it will take the shape of the shaping surface at the orifice at the tip of the nipple. For example, nipple 612 has a shaping surface which will produce a bead with a ribbed top and a semi-cylindrical bottom surface, nipple 614 will produce a bead with a triangular cross-sectional profile, and nipple 616 will produce a semi-cylindrical bead. These examples are given as being illustrative of what shapes of beads can be created using the detachable nipples and are not intended to limit the scope of what is the invention being described. Differently configured shaping surfaces will create beads with different shapes and are

intended to be captured in the detachable nipples being described herein.